

CLAIMS

1. A method of detecting a delayed frame in a transport function
2 wherein a plurality of frames are sent from a transmitter to a receiver, the
method comprising the steps of:

4 determining a threshold value proportional to a product of a number
5 of frames within a bundle of frames and a maximum delay time in frame-length
6 time increments between frames sent in said bundle of frames;

7 comparing, for a received frame, a frame sequencing counter
8 number with said threshold value, the frame sequencing counter number being
9 derived from a header of the received frame; and

10 detecting the received frame as a delayed frame if the frame
sequencing counter number exceeds said threshold value.

2. The method as recited in claim 1 wherein the plurality of frames is sent in
2 bundles of frames, each bundle including an equal number of frames, the frames
within any bundle being sent simultaneously.

3. The method of claim 1, further comprising the step of processing a
2 detected delayed frame as a retransmitted frame.

4. The method of claim 1, wherein the transport function is a Radio Link
2 Protocol interface.

5. An apparatus for detecting a delayed frame in a transport function
2 wherein a plurality of frames are sent from a transmitter to a receiver, the
apparatus comprising:

4 means for determining a threshold value proportional to a product
of a number of frames within a bundle of frames and a maximum delay time in
6 frame-length time increments between frames sent in said bundle of frames;

8 means for comparing, for a received frame, a frame sequencing
counter number with said threshold value, the frame sequencing counter number
being derived from a header of the received frame; and

10 means for detecting the received frame as a delayed frame if the
frame sequencing counter number exceeds the threshold value.

6. The apparatus as recited in claim 5 wherein the plurality of frames is sent
2 in bundles of frames, each bundle including an equal number of frames, the
frames within any bundle being sent simultaneously.

7. The apparatus of claim 5, further comprising means for processing a
2 detected delayed frame as a retransmitted frame.

8. The apparatus of claim 5, wherein the transport function is a Radio Link
2 Protocol interface.